A NEW SPECIES OF *CLEMATIS* (RANUNCULACEAE) FROM TAIWAN

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Abstract: The genus *Clematis* (Ranunculaceae) of Taiwan is unrevised. The most variable group of the genus, Sect. *Clematis* Subsect. *Clematis*, needs revision in particular. The present paper aims to describe a new species of the subsection, *C. sasakii* and to elucidate its characteristics through a taxonomic key to all the species of the Taiwan *Clematis*.

This is a contribution to the taxonomic revision of the Taiwan *Clematis*, containing the taxonomic description of a new species of Sect. *Clematis* Subsect. *Clematis* and a key to all the species found in Taiwan.

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Clematis (Clematis) **sasakii** T. Shimizu, sp. nov.

Suffrutex scandens. Caulis plus minus sulcati sparse pubescentes. Folia opposita ternata longe petiolata. petiolis 1–5 cm longis, foliolis chartaceis lanceolatis 2–7.5 cm longis 0.5–2 cm latis breviter petiolulatis apice acuminatis basi cuneatis supra glabriusculis impressinervatis subtus pubescentibus praesertim ad nervos prominentes integris. Inflores centiae axillares 5–6 cm longae 3–7-floriferae bracteate, bractis ovato-lanceolatis integris 1–3 cm longis 0.5–1.2 cm latis. Flores ca. 2 cm in diametro bracteolati, sepalis ovatis 10–11 mm longis 4–5 mm latis extus tomentosis intus glabris subanthesin patentibus, staminibus 5–6 mm longis, antheris haud 1 mm longis apice cononnatis, filamentis glabris basi distincte latioribus. Achenis rhombide-ovata 3–3.5 mm longa 2 mm lata distincte marginata compressa, caudis 2.5 cm longis laciniis albis sordidis patentibus.

Taitung: Mt. Daixwanzan, *S. Sasaki s.n.* Oct. 19, 1933—type (TAI); ibid., *S. Sasaki s.n.* Oct. 20, 1933 (TAI).

This is a member of Subsect. *Clematis* among which the representatives of the Taiwan *Clematis* such as *C. taiwaniana*, *C. bartlettii* and *C. gouriana* are included. The present new species is characterized by chartaceous leaves, entire leaflets nearly glabrous on the undersurface a nd 3–7-flowered cymes having large entire bracts. It is descriminated from the related species by the following key.

KEY TO THE SPECIES

1. Floweres fascicled at the base of the current year's branch; stamens glabrous (Sect. *Cheiropsis*).....*C. montana*
1. Flowers terminal or axillary
   2. Stamens barbate or glabrous; sepals erect; leaves or leaflets dentate (Sect. *Viorna*)
      3. Erect subshrub without volubile petioles; flowers terminal, usually in panicles; stamens glabrous (Subsect. *Tubulosae*)

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Fig. *Clematis sasakii T. Shimizu* (*S. Sasaki s.n.* Oct. 20, 1932)

4. Flowers solitary or a few; leaflets up to 2.5 cm long ....*C. tsugetorum*
4. Flowers numerous in cymes; leaflets 4-5 cm long .....*C. psilandra*)
3. Scandent subshrub having volubile petioles; flowers usually axillary; stamens barbate (Subsect. *Connatae*)
4. Leaves simple; flowers axillary, 1-3; sepals pubescent outside .....*C. hneryi* var. *leptophylla*
4. Leaves compound
5. Densely covered with golden hairs: leaves ternate, with large leaflets 5-10 cm long .....*C. leschenaultiana*
5. Plant without golden hairs
6. Leaves trifoliolate; sepals pilose outside .....*C. morii*
6. Leaves ternate to biternate; sepals glabrous outside .....*C. lasiandra* var. *nagasawai*
2. Stamens gladrous; sepals patent
3. Stamens with distinct connectives; leaves leathery, 3-5-foliolate, connate at base (Sect. *Naraveliopsis*).....*C. toshiroi*
3. Stamens without connectives or with indistinctiones (Sect. *Clematis*)
4. Leaves herbaceous or chartaceous, dentate, when entire filaments linear-lanceolate with wider base (Subsect. *Clematis*)
5. Flowers 1-7 in cymes; sepals longer than 10 mm; filaments linear-lanceolate, wider toward the base
6. Leaves biternate; leaflets dentate .....*C. pierotii*
6. Leaves ternate
7. Plant hoary tomentose; leaflets herbaceous, grossly dentate.....*C. bartlettii*
7. Plant never tomentose; leaflets hard chartaceous, entire.....*C. sasakii*
5. Sepals shorter than 8 mm; filaments filiform, more of less thickened at apex
6. Flowers numerous in panicles; leaflets lanceolate to ovate
7. Leaves herbaceous, ternate or biternate, boary tomentose..... .....*C. taiwaniana*
7. Leaves chartaceous, biternate, nearly glabrous .....*C. gouriana*
6 Flowers a few in panicles; leaves ternate; leaflets bi-or trilobed, having oblong-linear lobes, slightly pubescent.....*C. formosana*
4. Leaves subcorlaceous, entire or only lobate, without serration; filaments linear or filiform, equal in width or with narrower base; sepals glabrous or thinly pubescent outside, but tomentose on margin (Subsect. *Rectae*)
5. Anthers conjunct at apex, 1.2 mm long; filaments wrinkled .....*C. crassifolia*
5. Anthers parallell, 2-6 mm long; filaments smooth
6. Petiolules articulate; achenes fusiform, not compressed
7. Acbenes glabrous; leaflets 3-nerved, round at base .....*C. uncinata*
7. Achenes pilose; leaflets 5-nerved, cordate at base
8. Leaves pinnate, with 5 leaflets.....*C. trichocarpa*
8. Leaves biternate, with 9 leaflets.....*C. alsomitrifolia*
6. Petiolules not articulate; achenes compressed, pilose
7. Leaves ternate; leaflets round to cordate at base; achenes somewhat compressed
8. Flowers many in cymes .....*C. meyeniana*
8. Flowers axillary 1-3 .....*C. owatarii*
7. Leaves pinnate or bipinnate; leaflets widely cuneate at base; achenes compressed
8. Plant blackened when dried; achenes not elevately marginate, having sordid tails.....; .....*C. chinensis*
8. Plant not blackened when dried; achenes elevately marginate, having white and shining tails .....*C. terniflora*